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Page 3

IN THE SPECIFICATION

Page 53, line 2, delete "IL-3" and insert --interleukin 3
(hereinafter, IL-3)--.

In each instance of its use, as listed below, delete the citation "(2, 3)" and insert --(J. Downward et al., ibid. 307, 521 (1984); A. Ullrich et al., ibid. 309, 418 (1984); C.J. Sherr et al., Cell 41, 665 (1985); L. Coussens et al., Nature 320, 277 (1986))--

Page 2, line 22.

In each instance of its use, as listed below, delete the citation "(4)" and insert --(J.M. Bishop, Science 235, 305 (1985); R.A. Weinberg, ibid. 230, 770 (1985); S.K. Hanks, A.M. Quinn, T. Hunter, ibid. 241, 42 (1988))--

Page 2, line 26.

In each instance of its use, as listed below, delete the citation "(23)" and insert --(R. Ross, E.W. Raines, D.F. Bowen-Pope, Cell 46, 155 (1986))--

Page 2, line 52.

Page 59, line 43.

In each instance of its use, as listed below, delete the citation "(1, 25, 26)" and insert --(R.F. Doolittle et al.,

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Science 221, 275 (1983); M.D. Waterfield et al., Nature 304, 35 (1983); K.C. Robbins et al., ibid. 305, 605 (1983); C.-H. Heldin et al., Nature 319, 511 (1986); P. Stroobant and M.D. Waterfield, EMBO J. 3, 2963 (1984))--

Page 3, line 9.

In each instance of its use, as listed below, delete the citation "(24)" and insert --(A. Johnsson, C.-H. Heldin, B. Westermark, A. Wasteson, Biochem. Biophys. Res. Commun. 104, 66 (1982))--

Page 3, line 26.

In each instance of its use, as listed below, delete the citation "(37)" and insert --(P. Beckman et al., Science 241, 1346 (1988))--

Page 3, line 31.

Page 32, line 27.

Page 58, line 7.

Page 61, line 47.

In each instance of its use, as listed below, delete the citation "(27)" and insert --(C.-H. Heldin et al., ibid. 7, 1387 (1988); C.E. Hart et al., Science 240, 1529 (1988))--

Page 4, line 9.

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In each instance of its use, as listed below, delete the citation "(14)" and insert --(R.G.K. Gronwald et al., *ibid.* 88, 3435 (1988); L. Claesson-Welsh et al., *Mol. Cell. Biol.* 8, 3476 (1988))--

Page 4, line 47.

Page 41, line 13.

In each instance of its use, as listed below, delete the citation "(28)" and insert --(J.A. Escobedo et al., *ibid.* 240, 1532 (1988))--

Page 4, line 49.

Page 58, line 17.

In each instance of its use, as listed below, delete the citation "(5)" and insert --(C.R. King, M.H. Kraus, S.A. Aaronson, *ibid.* 229, 974 (1985); G.D. Kruh et al., *ibid.* 234, 1545 (1986))--

Page 6, line 3.

In each instance of its use, as listed below, delete the citation "(3, 6, 7)" and insert --(C.J. Sherr et al., *Cell* 41, 665 (1985); L. Coussens et al., *Nature* 320, 277 (1986); Y. Yarden et al., *Nature* 323, 226 (1986); P. Besmer et al., *ibid.* 320, 415 (1986); Y. Yarden et al., *EMBO J.* 6, 3341 (1987))--

Page 8, line 42.

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In each instance of its use, as listed below, delete the citation "(10)" and insert --(Subject of the U.S. Patent Application entitled "Efficient Directional Cloning System", to be filed February, 1989)--

Page 21, line 28.

Page 38, line 17.

in each instance of its use, as listed below, delete the citation "(49)" and insert --(C.R. King, N.A. Giese, K.C. Robbins, S.A. Aaronson, Proc. Natl. Acad. Sci. USA 82, 5295 (1985))--

Page 22, line 11.

Page 31, line 29.

In each instance of its use, as listed below, delete the citation "(48)" and insert --(H.D. Lehrach, D. Diamond, J.M. Wozney, H. Boedtker, Biochemistry 16, 4743 (1977))--

Page 24, line 9.

Page 30, line 51.

In each instance of its use, as listed below, delete the citation "(41)" and insert --(E.M. Southern, J. Med. Biol. 98, 503 (1975))--

Page 29, line 14.

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In each instance of its use, as listed below, delete the citation "(42)" and insert --(P.W.J. Rigby, M. Dieckerman, C. Rhodes, P. Berg ibid. 113, 237 (1977))--

Page 29, line 16.

In each instance of its use, as listed below, delete the citation "(43)" and insert --(G.M. Wahl, M. Stern, G.R. Stark, Proc. Natl. Acad. Sci. USA 76, 3683 (1979))--

Page 29, line 20.

In each instance of its use, as listed below, delete the citation "(44)" and insert --(A. Hampe, M. Gobet, C.J. Sherr, F. Galibert, ibid. 81, 85 (1984))--

Page 29, line 34.

In each instance of its use, as listed below, delete the citation "(6)" and insert --(Y. Yarden et al., Nature 323, 226 (1986))--

Page 29, line 38.

Page 36, line 21.

Page 37, line 47.

Page 38, line 1.

Page 60, line 13.

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In each instance of its use, as listed below, delete the citation "(45)" and insert --(F. Sanger, S. Nicklen, A.R. Coulson, *ibid.* 74, 5463 (1977))--

Page 30, line 23.

In each instance of its use, as listed below, delete the citation "(47)" and insert --(M.E. Harper and G.F. Saunders, *Chromosoma (Berl.)* 83, 431 (1981); N.C. Popescu et al., *Cytogenet. Cell Genet.* 39, 73 (1985))--

Page 30, line 43.

In each instance of its use, as listed below, delete the citation "(50)" and insert --(M. Wigler et al., *Cell* 11, 223 (1977))--

Page 31, line 39.

In each instance of its use, as listed below, delete the citation "(51)" and insert --(H. Towbin, T. Staehelin, J. Gordon, *Proc. Natl. Acad. Sci. USA* 76, 4350 (1979))--

Page 32, line 5.

In each instance of its use, as listed below, delete the citation "(52)" and insert --(W.M.Hunter and F.C. Greenwood, *Nature* 194, 495 (1962))--

Page 32, line 17.

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In each instance of its use, as listed below, delete the citation "(53)" and insert --(E.W. Raines and R. Ross, J. Biol. Chem. 257, 5154 (1982))--

Page 32, line 21.

In each instance of its use, as listed below, delete the citation "(54)" and insert --(J.J. Wang, Mol. Cell. Biol. 5, 3640 (1985))--

Page 33, line 1.

Page 83, line 49.

In each instance of its use, as listed below, delete the citation "(8)" and insert --(D.Q. Xu, S. Guilhot, F. Galibert, Proc. Natl. Acad. Sci. USA 82, 2862 (1985))--

Page 34, line 28.

In each instance of its use, as listed below, delete the citation "(7)" and insert --(P. Besmer et al., ibid. 320, 415 (1986); Y. Yarden et al., EMBO J. 6, 3341 (1987))--

Page 35, line 3.

line 48.

Page 36, line 23.

In each instance of its use, as listed below, delete the citation "(3, 6)" and insert --(C.J. Sherr et al., Cell 41, 665 (1985); L. Coussens et al., Nature 320, 277 (1986); Y. Yarden

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et al., Nature 323, 226 (1986))--

Page 35, line 48.

In each instance of its use, as listed below, delete the citation "(9)" and insert --(R. Breathnad and P. Chambon, Annu. Rev. Biochem. 50, 349 (1981))--

Page 35, line 54.

In each instance of its use, as listed below, delete the citation "(11)" and insert --(M. Kozak, Cell 44, 283 (1986))--

Page 39, line 7.

In each instance of its use, as listed below, delete the citation "(12)" and insert --(G. von Heijne, Nucleic Acids Res. 14, 4683 (1986))--

Page 39, line 25.

In each instance of its use, as listed below, delete the citation "(13)" and insert --(J.E. Smart et al., Proc. Natl. Acad. Sci USA 78, 6013 (1981))--

Page 40, line 21.

In each instance of its use, as listed below, delete the citation "(15)" and insert --(L. d'Auriol et al., Hum. Genet 78, 374 (1988))--

Page 42, line 23.

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Page 60, line 7.

In each instance of its use, as listed below, delete the citation "(16)" and insert --(C.A. Griffin et al., Cytogenetic Cell Genet 45, 67 (1987))--

Page 42, line 25.

In each instance of its use, as listed below, delete the citation "(17)" and insert --(A.D. Luster et al., Proc. Natl. Acad. Sci. USA 84, 2868 (1987))--

Page 42, line 27.

In each instance of its use, as listed below, delete the citation "(18)" and insert --(A. Richmond et al., EMBO J. 7, 2025 (1988))--

Page 42, line 29.

In each instance of its use, as listed below, delete the citation "(19)" and insert --(M.E. Harper and G. Dugaiczyk, J. Hum. Genet. 35, 565 (1983))--

Page 42, line 31.

In each instance of its use, as listed below, delete the citation "(20)" and insert --(M.A. Furguson-Smith et al., Cytogenet Cell Genet 40, 628 (1985))--

Page 42, line 33.

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In each instance of its use, as listed below, delete the citation "(21)" and insert --(S.P. Ball, P.J.L. Cook, M. Mars, K.E. Buckton, Ann Hum. Genet 46, 35 (1982))--

Page 42, line 35.

In each instance of its use, as listed below, delete the citation "(3, 7)" and insert --(C.J. Sherr et al., Cell 41, 665 (1985); L. Coussens et al., Nature 320, 277 (1986); P. Besmer et al., ibid. 320, 415 (1986); Y. Yarden et al., EMBO J. 6, 3341 (1987))--

Page 43, line 37.

In each instance of its use, as listed below, delete the citation "(22)" and insert --(A.R. Frackelton, P.M. Tremble Jr., L.T. Williams, J. Biol. Chem. 259, 7909 (1984); T.O. Daniel et al., Proc. Natl., Acad. Sci. USA 82, 2684 (1985))--

Page 47, line 13.

In each instance of its use, as listed below, delete the citation "(38)" and insert --(H. Seppa et al., J. Cell Biol. 92, 584 (1982); G.R. Grotendorst et al., J. Cell Physiol. 113, 261 (1982); T.F. Deuel, R.M. Senior, J.S. Huang, G.L. Griffin, J. Clin. Invest. 69, 1046 (1982))--

Page 58, line 35.

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In each instance of its use, as listed below, delete the citation "(39)" and insert --(K. Mellstrom et al., J. Cell Motility and Muscle Res. 4, 589 (1983))--

Page 58, line 37.

In each instance of its use, as listed below, delete the citation "(40)" and insert --(E. Rozengurt, M. Rodriguez-Pnena, K.A. Smith, Proc. Natl. Acad. Sci. USA 80, 7244 (1983); R.J. Davis and M.P. Czech, ibid. 82, 4080 (1985))--

Page 58, line 39.

In each instance of its use, as listed below, delete the citation "(29)" and insert --(M.M. Le Beau et al., ibid. 231, 984 (1986))--

Page 60, line 15.

In each instance of its use, as listed below, delete the citation "(30)" and insert --(D.E. Comings, Nature 238, 455 (1972))--

Page 60, line 19.

In each instance of its use, as listed below, delete the citation "(31)" and insert --(J. Massague, J. Biol. Chem. 258, 13614 (1983))--

Page 60, line 55.

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In each instance of its use, as listed below, delete the citation "(32)" and insert --(R. Derynck et al., Cancer Res. 47, 707 (1987); D.C. Lee et al., Mol. Cell. Biol. 5, 3644 (1985); D.R. Twardzik, Cancer Res. 45, 5413 (1985); R.J. Coffey et al., Nature 328, 817 (1987))--

Page 61, line 3.

In each instance of its use, as listed below, delete the citation "(33, 34)" and insert --(E.S. Kawasaki et al., Science 230 291 (1985); C. Betsholtz et al., Nature 320, 695 (1986))--

Page 61, line 15.

In each instance of its use, as listed below, delete the citation "(35)" and insert --(A. Ullrich et al., Nature 313 (1985); Y. Ebina et al., Cell 40, 747 (1985); A. Ullrich et al., EMBO J. 5, 2503 (1986))--

Page 61, line 19.

In each instance of its use, as listed below, delete the citation "(34, 36)" and insert --(C. Betsholtz et al., Nature 320, 695 (1986); R.A. Seifert, S.M. Schwartz, D.F. Bowen-Pope, Nature 34, 669 (1984); M. Jaye et al., Science 228, 882 (1985); J. Nilsson et al., Proc. Natl. Acad. Sci. USA 82, 4418 (1985); T. Collins et al., Nature 316, 748 (1985))--

Page 61, line 41.